

Having thus, described the invention, what is claimed is:

1     1.       An engine, wherein an engine body including a crankcase includes a plurality of  
2     cylinder bores, and an intake plenum common to all of said cylinder bores is operatively  
3     attached to said engine body;

4             characterized in that a plurality of electric parts are disposed around said intake  
5     plenum, and said plurality of electric parts are covered with a shield cover attached to said  
6     engine body in such a manner as to cover at least part of said intake plenum.

1     2.       The engine of claim 1, wherein said intake plenum comprises a hollow housing  
2     defining an intake chamber therein, and a plurality of runners in fluid communication with  
3     said housing and extending therefrom to supply air to respective cylinders of said engine.

1

1     3.       The engine of claim 2, wherein each of said runners comprises a connecting pipe  
2     having an outwardly flared pickup end.

1     4.       The engine of claim 2, wherein each of said runners further comprises an arcuately

2 curved intake pipe operatively attached to said connecting pipe.

1

1 5. The engine of claim 2, wherein each of said connecting pipes curves rearwardly in  
2 said plenum.

1 6. An engine according to claim 1, characterized in that said engine body includes said  
2 cylinder bores opposed to each other and sandwiching a crankshaft, which is rotatably  
3 supported on said crankcase, from the opposite sides therebetween, and wherein said intake  
4 plenum is disposed above said crankcase.

1 7. An engine according to claim 1, characterized in that an electronic control unit which  
2 is one of said electric parts is attached to an outer face of a side wall of said intake plenum,  
3 and a sensor for detecting a condition in said intake chamber extends from said electronic  
4 control unit through said side wall and into said intake chamber.

1

1 8. The engine of claim 1, wherein said plurality of electrical parts includes at least two  
2 parts selected from the group consisting of coils, control modules, sensors, plug wires and  
3 injectors.

1 9. The engine of claim 1, further comprising at least one throttle body operatively  
2 connected to said intake plenum.

1 10. The engine of claim 9, further comprising an air cleaner housing operatively  
2 connected to said throttle body.

1 11. An engine, wherein an engine body including a crankcase includes a plurality of  
2 cylinder bores, and an intake plenum common to all of said cylinder bores is operatively  
3 attached to said engine body;  
4 characterized in that a plurality of electric parts are disposed around said intake  
5 plenum, and said plural electric parts are covered with a shield cover attached to said engine  
6 body in such a manner as to cover at least part of said intake plenum,

7 wherein said cylinder bores are substantially opposed to each other and sandwiching  
8 a crankshaft, which is rotatably supported on said crankcase, from the opposite sides  
9 therebetween, and wherein said intake plenum is disposed above said crankcase.

1 12. An engine according to claim 11, characterized in that an electronic control unit which is  
2 one of said electric parts is attached to an outer face of a side wall of said intake plenum, and  
3 a sensor for detecting a condition in said intake chamber extends from said electronic control  
4 unit through said side wall and into said intake chamber.

1 13. The engine of claim 11, wherein said intake plenum comprises a hollow housing  
2 defining an intake chamber therein, and a plurality of runners in fluid communication with  
3 said housing and extending therefrom to supply air to respective cylinders of said engine.

1 14. The engine of claim 13, wherein each of said runners comprises a connecting pipe  
2 having an outwardly flared pickup end.

1 15. The engine of claim 13, wherein each of said runners further comprises an arcuately  
2 curved intake pipe operatively attached to said connecting pipe.

1

1 16. The engine of claim 13, wherein each of said connecting pipes curves rearwardly in  
2 said plenum.

1 17. An engine according to claim 11, wherein said plurality of electrical parts includes  
2 at least two parts selected from the group consisting of coils, control modules, sensors, plug  
3 wires and injectors.

1 18. The engine of claim 11, further comprising at least one throttle body operatively  
2 connected to said intake plenum.

1 19. The engine of claim 11, further comprising an air cleaner housing operatively  
2 connected to said throttle body.

1    20.        An engine wherein an engine body including a crankcase includes a plurality of  
2    cylinder bores and an intake manifold having a plurality of intake pipes individually  
3    corresponding to said cylinder bores is operatively attached to said engine body, characterized  
4    in that a one-piece shield cover which interconnects said intake pipes and covers a plurality of  
5    electric parts is provided in such a manner as to cover a portion of said engine body.